

CURTAIN DRAIN TRENCH DETAIL
NTS

TEST PITS PERFORMED BY RYAN MARSH, (DESIGNER #575) ON OCTOBER 24, 2018.

TEST PLOT #1	SEASONAL HIGH WATER TABLE (SHWT) @ 18" DARK BROWN, FINE SANDY LOAM WITH FEW SMALL GRAVELS, FRIZABLE, MANY ROOTS DARK TARI BROWN, SANDY LOAM WITH FEW SMALL GRAVELS, FRIZABLE, FEW ROOTS REDKOH COMMON AT 18" DARK BROWN, VERY FINE SANDY LOAM, FRIZABLE, NO ROOTS, REDKOH COMMON
0" - 6" 6" - 28"	
28" - 60"	
TEST PLOT #2	SHWT @ 18" DARK BROWN, FINE SANDY LOAM WITH FEW SMALL GRAVELS, FRIZABLE, MANY ROOTS DARK TARI BROWN, SANDY LOAM WITH FEW SMALL GRAVELS, FRIZABLE, FEW ROOTS REDKOH COMMON AT 18" DARK BROWN, VERY FINE SANDY LOAM, FRIZABLE, NO ROOTS, REDKOH COMMON
0" - 6" 4" - 18" 18" - 57"	
TEST PLOT #3	SHWT @ 18" DARK BROWN, FINE SANDY LOAM WITH FEW SMALL GRAVELS, FRIZABLE, MANY ROOTS DARK TARI BROWN, SANDY LOAM WITH FEW SMALL GRAVELS, FRIZABLE, FEW ROOTS REDKOH COMMON AT 18" DARK BROWN, VERY FINE SANDY LOAM, FRIZABLE, NO ROOTS, REDKOH COMMON
0" - 6" 6" - 29" 29" - 59"	

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PERC. TEST #1	10 MINUTES PER INCH
PERC. TEST #2	12 MINUTES PER INCH

THIS PROPOSED WASTEWATER SYSTEM WAS DESIGNED FOR A 2 BEDROOM SINGLE FAMILY HOUSE.

1. DESIGN FLOW - 280 GPD (140 GPD / BEDROOM UNTIL 3 BEDROOM, THEN 70 GPD / BEDROOM)
2. PERCOLATION TEST: 10 MINUTES/INCH
3. LENGTH OF PIPE REQUIRED - 110 LF (PER STATE OF VERMONT PRESBY DESIGN AND INSTALLATION MANUAL)
4. LENGTH OF PIPE PROVIDED - 120 LF
5. SAND BED AREA REQUIRED - 185 SF (PER STATE OF VERMONT PRESBY DESIGN AND INSTALLATION MANUAL)
6. SAND BED AREA PROVIDED - 378 SF (6' x 42' MOUND BED + 3' BED EXTENSION, SEE DETAILS)
7. HOUSE SEPTIC TANK SIZE - 1,000 GALLON CONCRETE (NEW TANK, SEE DETAIL)

1. MARSH SEPTIC & DESIGN SHALL RECEIVE AT LEAST 72 HOURS NOTICE PRIOR TO CONSTRUCTION TO STAKEOUT THE SEPTIC SYSTEM AT THE LOCATION AND ELEVATIONS SHOWN ON THIS PLAN. THEY SHALL ALSO RECEIVE 24 HOURS NOTICE PRIOR TO CONSTRUCTION OF KEY ELEMENTS OF THIS SEPTIC SYSTEM FOR INSPECTION. THE LAYOUT OWNER OR CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING FOR THE NECESSARY SERVICES WITHIN THE TIME FRAME OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SEPTIC TANK, PUMP STATION, SEWER PIPE OR FORCE MAIN, D-SHOWER AND THE LEACH PIPES IN THE TRENCHES OR BED SHALL BE LEFT VISIBLE FOR INSPECTION. THE CONTRACTOR SHALL BE PREPARED TO TEST RUN THE FLOWY TANK AT THE TIME OF THE INSPECTION BY PUMP CLEAN WATER THROUGH DISTRIBUTION SYSTEM. FINAL CERTIFICATION WILL NOT BE PROVIDED IF SYSTEM IS COVERED BEFORE INSPECTED BY DESIGNER.

2. THE MOUND SHALL BE BUILT TO THE PROPER GRADE SHOWN ON THE PLANS. ALL ABOVE GROUND VESSELS SHALL BE CLOSELY CUT AND REMOVED FROM THE EXISTING SURFACE IN THE AREA OF THE MOUND TRENCHES OR BED AND THE FILL MATERIAL AROUND THEM. ALL TREE STUMPS ARE TO BE CUT FLUSH WITH THE EXISTING GROUND SURFACE AND NO ROOTS SHALL BE LEFT. THE EXISTING GROUND BELOW THE PROPOSED MOUND LINE IS TO BE FLOWED TO A DEPTH OF 7" - 8" PARALLEL TO THE CONTOURS WITH THE FURROWS PLACED UP- SLOPE. IF THE AREA CANNOT NOT BE PLOWED, A DITCHER OR BACKHOE FITTED WITH CHISEL TEETH MAY BE USED TO "TILL" THE AREA CREATING FURROWS THAT ARE PARALLEL TO THE CONTOURS. TO PREVENT COMPACTION OF THE SOIL, ONCE PLOWED NO CONSTRUCTION EQUIPMENT SHALL MOVE ON THE MOUND. THEREAFTER PLANTS OR TREES SHALL BE PLANTED AT THE PROPER SPACING. AFTER THE AREA, CONSTRUCTION EQUIPMENT MAY DRIVE OVER THE PROTECTED MOUND AREA. THE BUCKET ON AN EXCAVATOR, BACKHOE OR FRONT END LOADER SHALL BE USED TO PLACE THE SYSTEM SAND AND MOUND SAND FILL IN THE MOUND TO THE CORRECT ELEVATION. THE SYSTEM SAND SHALL HAVE A MINIMUM OF 1/2" TO 3/4" SAND FILL. THEREAFTER, AFTER PLACING A MINIMUM OF 6" OF SAND FILL OVER THE PLOWED AREA AND AT THE NOTED SPACING ON THIS SHEET. REMOVE ANY DIPPS AND RISKS WHICH OCCUR IN THE PIPE BEFORE COVERING THE PIPES. THE NEW SYSTEM MUST BE TESTED AND INSPECTED BY DESIGNER. AFTER PASSING THE INSPECTION INSTALL FINISH PLACING THE SYSTEM SAND ON THE TOP OF THE MOUND. THE COVER TOP OF THE SYSTEM SHALL BE AT LEAST 18" ABOVE THE FINISH GRADE. THE MOUND USING MOUND SAND THEN FOLLOVED COVERING THE ENTIRE MOUND BY AT LEAST 4" OF TOPSOIL. THE CONTRACTOR SHALL GROWN THE TOP AND SHAPE THE MOUND SO THAT THERE WILL BE NO STANDING SURFACE WATER ON OR AROUND THE MOUND.

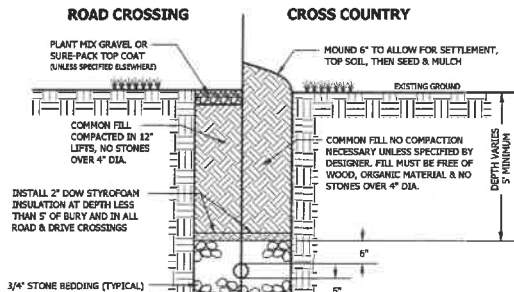
3. ALL PVC PIPE JOINTS AND CONNECTIONS SHALL BE SOLVENT WELDED.

4. ALL DISTURBED AREA SHALL BE TREATED WITH SEED, SEPTIC TANK AND PUMP STATION SHALL BE FIVE GRADES TO ENSURE CONTOURS. THIS AREA SHALL THEN BE SEEDDED WITH A GRASS MIXTURE AND A COVERING OF MULCH TO ENSURE GERMINATION OF SEEDS.

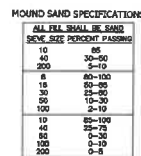
5. ALL RISER COVERS ARE TO BE TIGHT AND AT OR ABOVE FINAL GRADE FOR ACCESSIBILITY WITH A SECURE COVER.

6. IT SHALL BE THE LOT OWNERS RESPONSIBILITY TO CONFORM TO THE REQUIREMENTS OF THE STATE PERMIT AND ENSURE THAT THE PROJECT IS BUILT IN COMPLIANCE TO THE PLANS AND SPECIFICATIONS.

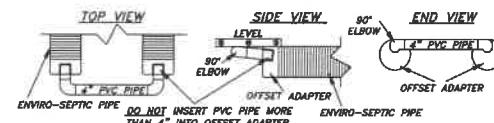
7. CALL DIS SAFE 72 HOURS PRIOR TO START OF ANY CONSTRUCTION. UNDERSTANDING UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THESE PLANS.



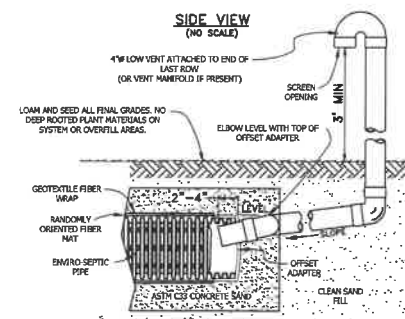
SEWER PIPE TRENCH DETAIL
NTS



<u>ROW NO.</u>	<u>PIPE INVERT ELEVATION</u>
DBOX	1004.3
ROW 1	1004.1
ROW 2	1003.9
ROW 3	1003.7



RAISED CONNECTION DETAIL
NTS



LOW VENT PIPE DETAIL

[illegible]

CHRIS WELLS
HEIDI MCLAUGHLIN
28 RANGE ROAD, UNDERHILL
REPLACEMENT SEPTIC DESIGN
DETAIL SHEET